

CLAIM AMENDMENTS

1. (Currently Amended) A reactor and heat exchanger cooler assembly which is comprised of a tubular reactor having an upper inlet head and an lower outlet head, reaction tubes packed with catalyst within said reactor supported by an inlet end tube sheet and an outlet end tube sheet, a tubular heat exchanger having an upper end and a lower end, and comprising upper and lower end tube sheets supporting tubes within said exchanger, the upper end of said exchanger being integrally affixed to said reactor lower outlet head, said reactor outlet head having an opening for the passage of the reaction gases gas mixture from the reactor to said heat exchanger and through tubes in said heat exchanger whereby said reaction gases are cooled by indirect heat exchange with a heat exchange fluid introduced into said heat exchanger.
2. (Original) The assembly of claim 1 wherein means are provided for cooling the tubes in both the reactor and the heat exchanger with water.
3. (Original) The assembly of claim 1 wherein the reactor is packed with a supported silver catalyst.
4. (New) The assembly of claim 1 wherein the heat exchanger comprises a fluid fluid introduction line.
5. (New) The assembly of claim 1 wherein the heat exchanger comprises a fluid removal line.